Special Issue

The Distribution and Diversity of Tick-Borne Zoonotic Pathogens

Message from the Guest Editor

Ticks are the second most important vectors of pathogens, with at least 896 species worldwide infesting domestic and wild animals. Tick-borne zoonotic pathogens are diverse, including bacteria (Rickettsia, Ehrlichia, Anaplasma, Coxiella), viruses (e.g., Tick-borne encephalitis, Crimean-Congo hemorrhagic fever), and protozoa (e.g., Babesia, Theileria). Many infect both animals and humans, leading to significant human infections. Recently, several novel tick-borne agents, such as Alongshan virus, Yezo virus, and Xuecheng virus, have been identified as human pathogens. Ticks and their pathogens pose major threats to livestock and public health. Our focus includes: (1) Spatiotemporal distribution of ticks, including new species reports. (2) Genetic diversity of tick-borne pathogens, like Rickettsia and Anaplasma species. (3) Transmission models, such as airborne or human-to-human spread of Anaplasma. (4) Human infections from tick-borne pathogens. (5) Environmental factors (temperature, rainfall, vegetation) affecting tick-borne diseases. We aim to provide insights for tick-borne disease prevention and control.

Guest Editor

Dr. Kun Li

National Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing 102206, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
tropicalmed@mdpi.com

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Editor-in-Chief

Prof. Dr. John Frean
Pathologist, Parasitology Reference Laboratory, Centre for Emerging Zoonotic and Parasitic Diseases, National Institute for Communicable Diseases, University of the Witwatersrand, Johannesburg 2192, South Africa

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